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APPLICANT : TORAY IND INC;

INVENTOR : MATSUHISA YOJI;

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TITLE : SILICONE RUBBER, SILICONE RUBBER PARTICLE, PRECURSOR FOR CARBON FIBER, AND CARBON FIBER

ABSTRACT : PROBLEM TO BE SOLVED: To easily obtain silicone rubber particles having a small size which could not been easily obtained in the prior art and which are usable for producing carbon fibers of a high strength.

SOLUTION: Substantially spherical silicone rubber particles having an average diameter of not larger than 1 $\mu$ m are obtained by curing an uncured silicone containing an amino-modified silicone or/and an epoxymodified silicone by irradiation with electron beams. The silicone rubber particles are attached to the surfaces of fibers to obtain a precursor for carbon fibers, and this precursor is burned to obtain carbon fibers having a high strength.

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